

# Policies, strategies and learning innovations for Open Education

Citation for published version (APA):

Stracke, C. M. (2016). *Policies, strategies and learning innovations for Open Education*. Poster session presented at Welten Conference "Opening Up Education", Heerlen, Netherlands.

## Document status and date:

Published: 18/03/2016

## Document Version:

Peer reviewed version

## Document license:

CC BY-NC-ND

## Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

[Link to publication](#)

## General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

<https://www.ou.nl/taverne-agreement>

## Take down policy

If you believe that this document breaches copyright please contact us at:

[pure-support@ou.nl](mailto:pure-support@ou.nl)

providing details and we will investigate your claim.

Downloaded from <https://research.ou.nl/> on date: 06 May. 2023

Open Universiteit  
[www.ou.nl](http://www.ou.nl)



# Policies, strategies and learning innovations for Open Education

Christian M. Stracke

Open University of the Netherlands

**Welten Institute**

Research Centre for Learning, Teaching and Technology

**Open Universiteit**  
**welten-institute.org**



# Open Education and Innovations

This work is free to share under the creative commons licence:  
"Attribution – Noncommercial – No Derivate 3.0"

You can copy, distribute and transmit the work under the following conditions:



1. Attribution –
2. Noncommercial –
3. No derivative works



Licence: Attribution-Noncommercial-No Derivative

Some rights reserved, see: <http://creativecommons.org/licenses/by-nc-nd/3.0/>





# **Dr. Christian M. Stracke: Open Learning, Innovations, Quality & Competences, Evaluation & Impact**

**Open University of the Netherlands**



**Global cooperation: ECNU & KNOU**



**Global initiative ICORE for OR & OE**



**Annual international LINQ Conference**



**eLC European Institute**



**Standardization Chair in ISO & CEN**

**Welten Institute**

Research Centre for Learning, Teaching and Technology

**Open Universiteit**  
**welten-institute.org**



# Selected Projects:

## Competence and Skills Modelling



## Open Education and Research



## Technology-Enhanced Learning at Large Scale

## Quality Management and Evaluation



# Selected Projects:



[www.inclusive-education.net](http://www.inclusive-education.net)



[www.ACT-now.de](http://www.ACT-now.de)



[www.aristotele-ip.eu](http://www.aristotele-ip.eu)



[www.opendiscoveryspace.eu](http://www.opendiscoveryspace.eu)



[www.ecompetence.eu](http://www.ecompetence.eu)



[www.wacom-project.eu](http://www.wacom-project.eu)



[www.simbase.co](http://www.simbase.co)



[www.mooc-quality.eu](http://www.mooc-quality.eu)



[www.agriculture-competences.eu](http://www.agriculture-competences.eu)



[www.voa3r.eu](http://www.voa3r.eu)



[www.digifem.eu](http://www.digifem.eu)



[www.eMundus-project.eu](http://www.eMundus-project.eu)



[www.locloud.eu](http://www.locloud.eu)



[www.quality-development.eu](http://www.quality-development.eu)



[www.learning-standards.eu](http://www.learning-standards.eu)



[www.inspiringscience.eu](http://www.inspiringscience.eu)

# **Speech Overview:**

- 1. What is Open Learning?**
- 2. Why Change in Education?**
- 3. What is Quality in Education?**
- 4. How to improve Quality?**
- 5. How to Participate?**

# **What is Open Learning?**



# **Open Learning:**

# **Our umbrella approach**

**Open Learning:**

**Innovations for changing  
& opening up education  
to improve the quality**



<https://www.flickr.com/photos/opensourceway/>

# Open Learning

**Macro:**

**Policies and Curricula**

**Strategic & organisational**

**Meso:**

**Organisation and Design**

**Micro:**

**Learner and Course**

# **Why Change in Education?**

# The Digital Age

**Two core factors:**

- 1. Globalisation &**
- 2. Worldwide Internet**



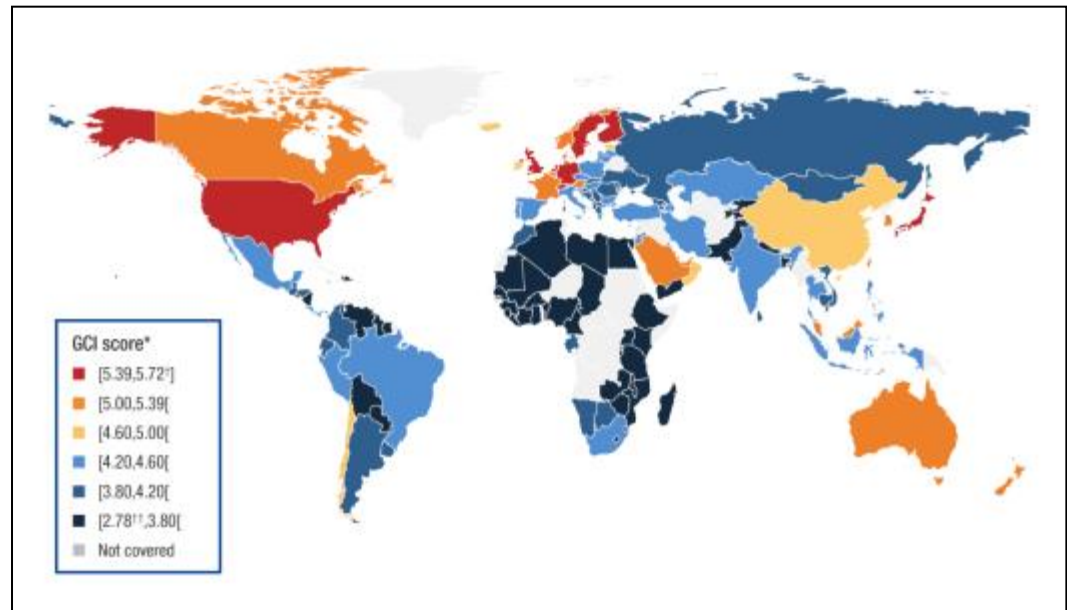
Photo: <https://ec.europa.eu/digital-agenda/en/digital-life/education>

# Internationalization

**Global Competitions and societal changes**

**Close the gaps  
& open new  
opportunities**

**Challenges:  
Learn to Learn**



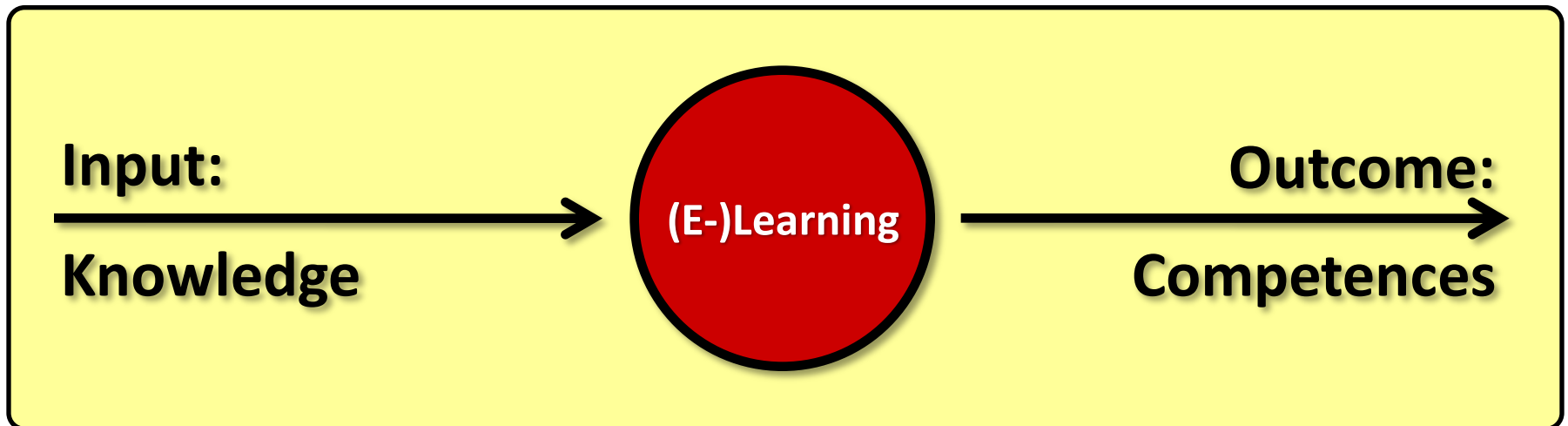
<http://www.weforum.org/issues/global-competitiveness>



# Learning cha(lle)nges

**Not knowledge but competences are required to meet future jobs and tasks still unknown today**

**Change from input to outcome orientation**



# **Change in Education!**

**To improve  
Quality  
in Education**

**Quality**

**What is  
Quality?**

**What is  
Quality in  
Education?**

**The  
experiment ...**



**A simple experiment:**

**Please imagine and define  
the quality of your  
favourite jelly bear**

**Your  
answers ...**

**Quality  
cannot be defined**

**... except through adaptation  
to your situation and context!**





**Quality: Most important  
... and "new pedagogy" is  
important just the same!**



**Quality  
in Education!**

**... with fun!**



**How to improve  
Quality?**

# Open Learning

**Macro:**

**Policies and Curricula**

**Strategic & organisational**

**Meso:**

**Organisation and Design**

**Micro:**

**Learner and Course**

# Quality by Open Learning

**Macro: Movement & Strategies**

**Strategic & organisational**

**Meso: Frameworks & Standards**

**Micro: Competences & Communities**

# Quality by Open Learning

Macro: Movement & Strategies

Meso: Frameworks & Standards

**Micro: Competences & Communities**

# **Competences: LELLE**

**Learning-how-to-Learn**

**The key competence in 21st century**

**Focus on inclusion of learning skills  
in (not only Higher Education) curricula**

# Competences: PBL3.0

**Problem-based Learning as method for key competences in 21st century**

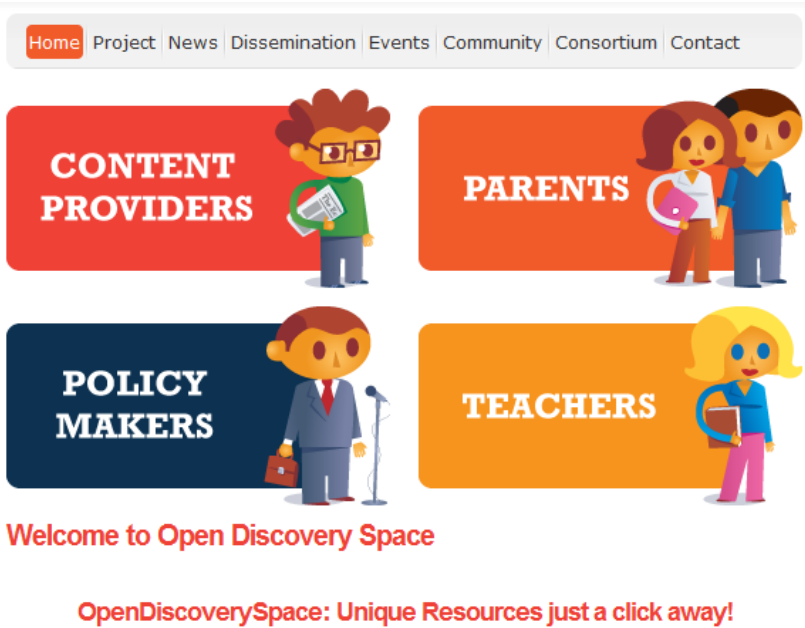
**Focus on integrating learning analytics & semantics in problem-based learning**

**[www.PBL3-project.eu](http://www.PBL3-project.eu)**



# Communities: ODS & ISE

> 10,000 teachers and  
> 3,000 schools in 28 countries

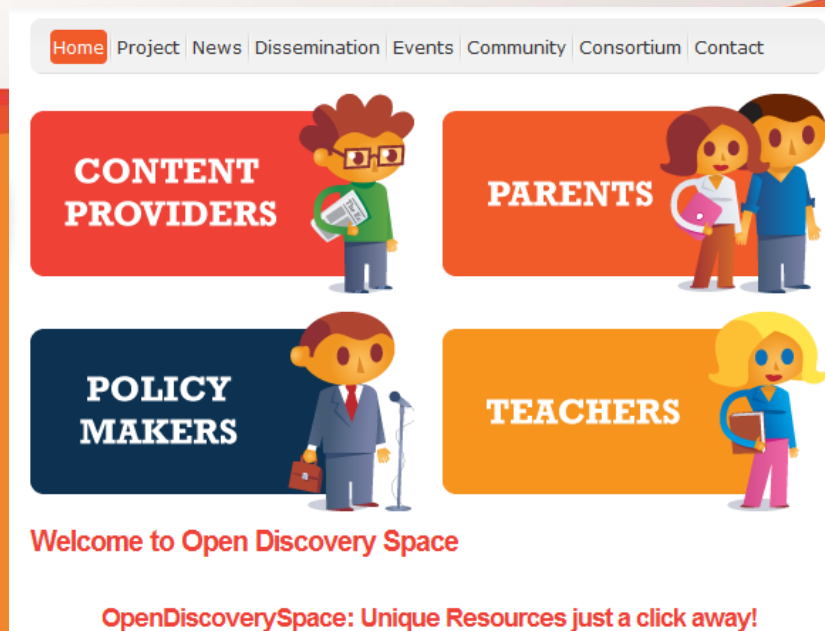


[www.opendiscoveryspace.eu](http://www.opendiscoveryspace.eu)



[www.inspiring-science.eu](http://www.inspiring-science.eu) & [portal.opendiscoveryspace.eu/ise](http://portal.opendiscoveryspace.eu/ise)





The Open Discovery Space Project is funded by  
CIP-ICT-PSP-2011-5, Theme 2: Digital Content,  
Objective 2.4: eLearning Objective 2.4

<http://www.opendiscoveryspace.eu>  
<http://portal.opendiscoveryspace.eu>

# Open Discovery Space

www.opendiscovery.space.eu

Google



Username or e-mail

Password

Log in

[Request new password](#)

*linkup, create, share, grow*

Supports teachers in creating unique teaching resources, share them within communities of interest and grow in their professional life

New in ODS ?  
Join our  
teachers'  
community

*Learn more about ODS*

Search for educational resources...



Open Discovery  
Space Summer  
School 2015

ODS Summer School 2015 on  
School Development and  
Innovation Attica Greece, July  
12-17, 2015...

## RESOURCES

EXPLORE OUR RESOURCES TO  
USE IN THE CLASSROOM AND  
PLAN YOUR LESSONS

**814728**  
RESOURCES

## COMMUNITIES

SHARE EDUCATIONAL  
CONTENT THROUGH  
COMMUNITIES OR START  
YOUR OWN

**766**  
COMMUNITIES

## SCHOOLS

NAVIGATE THROUGH THE  
SCHOOLS OF ODS NETWORK

**3445**  
SCHOOLS

## TEACHERS

BEING CONNECTED WITH  
OUR TEACHERS FROM ALL  
OVER THE EUROPE

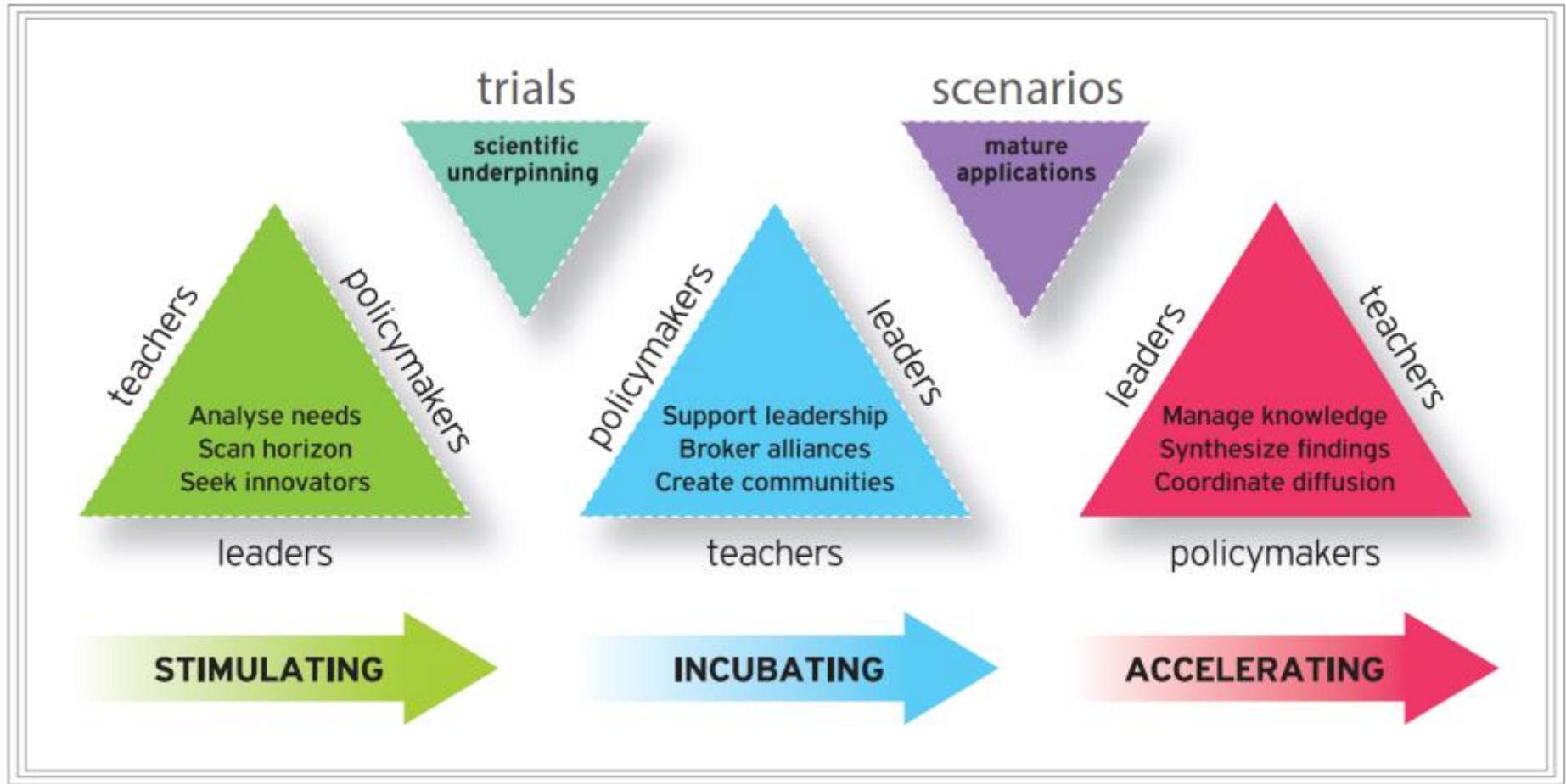
**8678**  
TEACHERS

## ODS ACADEMIES

FOLLOW THE ODS  
ACADEMIES TO IMPROVE  
YOUR PROFESSIONAL  
EDUCATION

**164**  
ACTIVITIES

# ODS Innovation Model







## Connecting Formal & Informal Learning Settings

### Welcome

In the framework of the Inspiring Science Education project the consolidation of good practice will be achieved by:

- a) Bringing into the classroom a unique collection of digital resources and tools that are based on real-world problems. The resources will involve students in finding their own problems, testing ideas (from small to big ideas in science), receiving feedback, and working collaboratively with other students or practitioners beyond the school classroom. Advanced eLearning tools will provide scaffolds that enhance learning, support thinking and problem solving, model activities and guide practice, represent data in different ways, and form part of a coherent and systemic educational approach.
- b) Giving students and teachers more opportunities to evaluate the quality of their own thinking and products for feedback, reflection, and revision.
- c) Giving students and teachers the opportunity to interact with working scientists, receive feedback from multiple sources.
- d) Building local and global communities where teachers, teacher trainers, education policy makers, parents, students, practicing scientists and other interested members of society are included in order to expand the learning environment beyond the school walls and expand opportunities for teachers' professional



# Quality by Open Learning

Macro: Movement & Strategies

**Meso: Frameworks & Standards**

Micro: Competences & Communities

# Frameworks: MOOQ

**MOOQ for the quality of MOOCs:  
“We will make MOOCs better”**

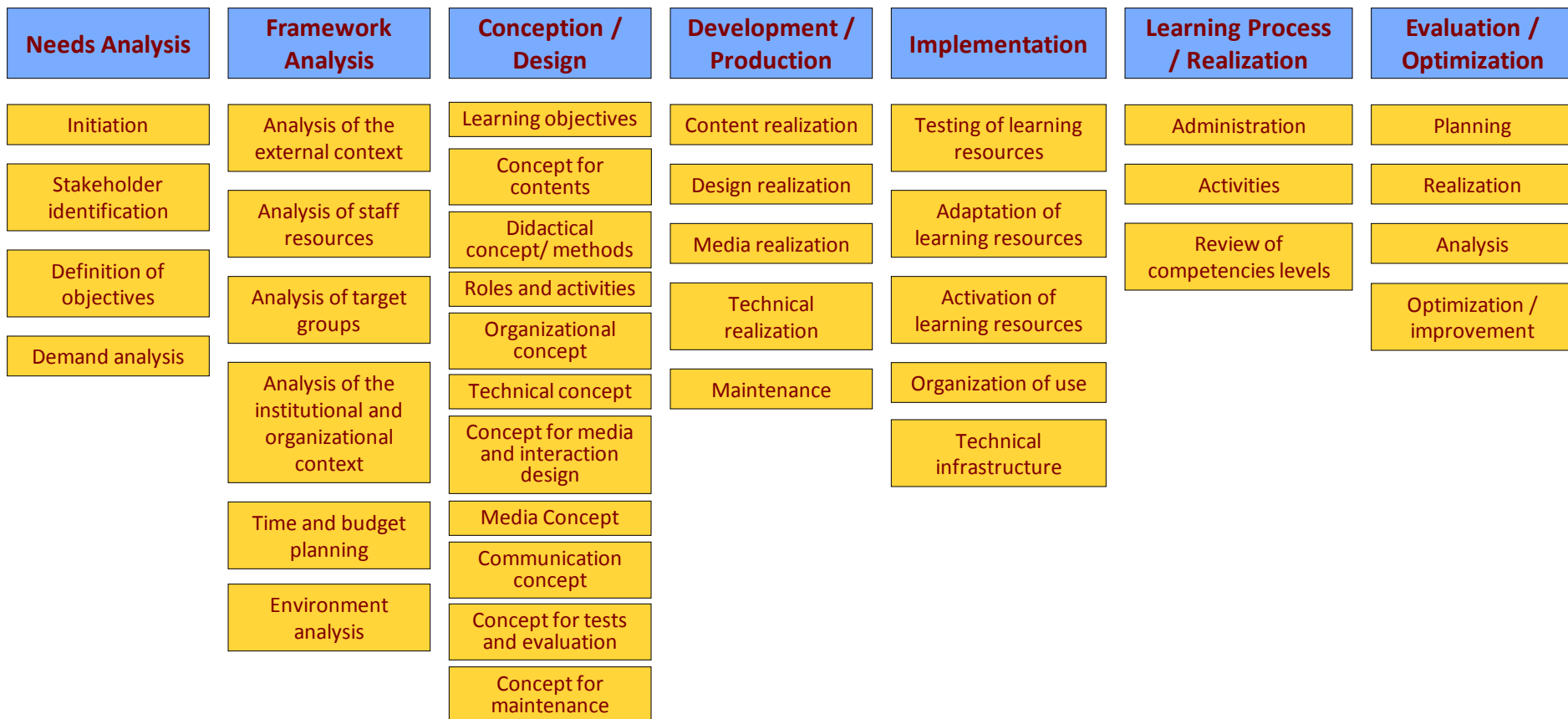
**Quality Reference Framework with  
indicators for design & comparison**

**[www.MOOC-quality.eu](http://www.MOOC-quality.eu)**



# Standard: ISO/IEC 19796-1

## The Reference Process Model:



# Standard: ISO/IEC 19796-1

## Example of required adaptation:

Needs Analysis	Framework Analysis	Conception / Design	Development / Production	Implementation	Learning Process / Realization	Evaluation / Optimization
Initiation	Analysis of the external context	Learning objectives	Content realization	Testing of learning resources	Administration	Planning
Stakeholder identification	Analysis of staff resources	Concept for contents	Design realization	Adaptation of learning resources	Activities	Realization
Definition of objectives	Analysis of target groups	Didactical concept/ methods	Media realization	Activation of learning resources	Review of competencies levels	Analysis
Demand analysis	Analysis of the institutional and organizational context	Roles and activities	Technical realization	Organization of use		Optimization / improvement
	Time and budget planning	Organizational concept	Maintenance	Technical infrastructure		
	Environment analysis	Technical concept				
		Concept for media and interaction design				
		Media Concept				
		Communication concept				
		Concept for tests and evaluation				
		Concept for maintenance				



# Quality by Open Learning

**Macro: Movement & Strategies**

Meso: Frameworks & Standards

Micro: Competences & Communities

# International Policies

## **UNESCO: OER Declaration**

<http://www.unesco.org/new/en/communication-and-information/access-to-knowledge/open-educational-resources/what-is-the-paris-oer-declaration>

## **European Commission: Opening Up Education**

[http://ec.europa.eu/education/policy/strategic-framework/education-technology\\_en.htm](http://ec.europa.eu/education/policy/strategic-framework/education-technology_en.htm)

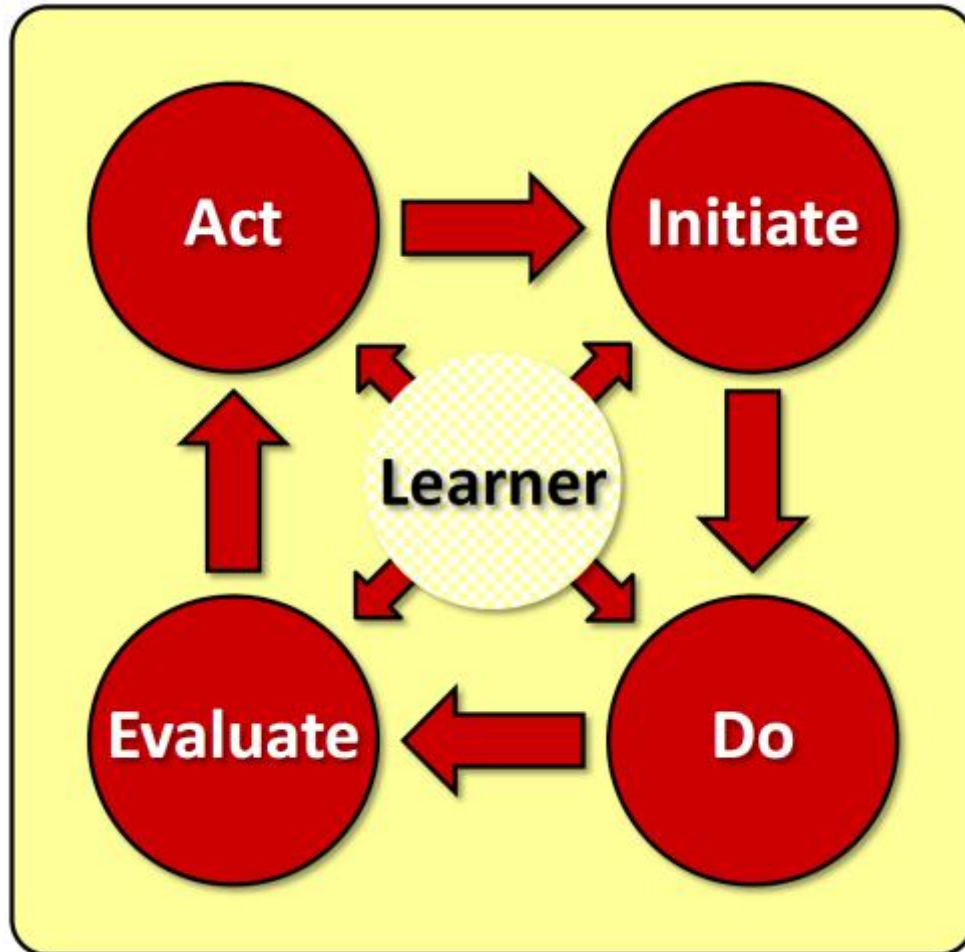
## **ICORE / OEC: Declaration of Crete**

[http://wiki.icore-online.org/index.php/ICORE\\_Declaration\\_of\\_Crete](http://wiki.icore-online.org/index.php/ICORE_Declaration_of_Crete)

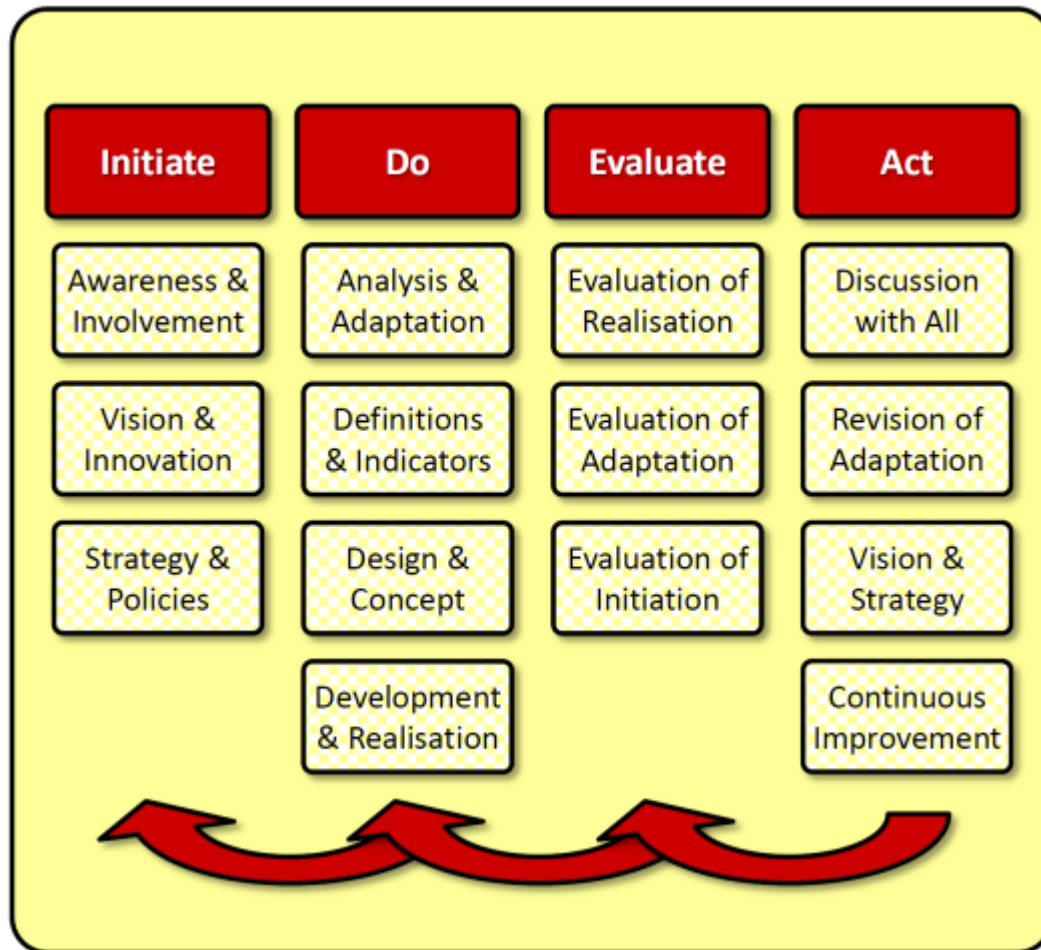
## **Republic of the Philippines: Open Distance Learning Act**

<http://www.gov.ph/2014/12/09/republic-act-no-10650/>

# Strategies: IDEAL



# Strategies: IDEAL



**How to  
Participate?**

**How to contribute  
to Open Learning?**

# LINQ

**The leading European and  
international Conference on  
Learning INnovations & Quality**

**[www.learning-innovations.eu](http://www.learning-innovations.eu)**

# LINQ 2013



**Our Vision:**

**Open Learning  
for best future  
Learning Innovation  
and Learning Quality!**



Please use: #LINQ2013  
Follow: @LINQ\_Conference





# LINQ 2015



**Our Vision:**  
**Openness as Default!**

**First ICORE Workshops:**  
**Follow up at ICDE 2015**  
**in South Africa and at**  
**OE Global 16 in Poland**



Please use: #LINQ2015  
Follow: @LINQ\_Conference



# ICORE

## ICORE: International Community for Open Research and Open Education

**Launched 15th May 2013 in Rome**

**Already > 300 members within one year**

**First recognition by key stakeholders & EC:**

**Let us join forces and become ICORE member!**

**[www.ICORE-online.org](http://www.ICORE-online.org)**



# **Towards Open Learning**

**Let us Opening up Learning,  
Education and Training for ALL!**





# Further References

Stracke, Christian M. (2014): "How Innovations and Competence Development support Quality in Lifelong Learning"; in: *The International Journal for Quality and Innovation* (INNOQUAL), Vol. 2 (3). p. 35-44.

Stracke, Christian M. (2014): "Evaluation Framework EFI for Measuring the Impact of Learning, Education and Training"; in: 华东师范大学学报(自然科学版) *Journal of East China Normal University*. Vol. 2014 (2). Shanghai: ECNU. p. 1-12. [DOI: 10.3969/j. ISSN 1000-5641. 2012.02.012]

Stracke, Christian M. (2014): "The Concept of Open Learning for Opening Up Education"; in: Stracke, Christian M. et al. (Ed.): *Changing the Trajectory: Quality for Opening up Education*. Berlin: Logos. p. 15-24.

All also online available at: <http://www.opening-up.education>

# Further References

- Stracke, Christian M. (2013): "Open Learning: The Concept for Modernizing School Education and Lifelong Learning through the Combination of Learning Innovations and Quality"; in: Stracke, Christian M. (Ed.): *Learning Innovations and Quality: The Future of Digital Resources*, Berlin: Logos. p. 15-28.
- Stracke, Christian M. (2013): "The Evaluation Framework for Impact Assessment"; in: *Proceedings of 6th International Conference of Education, Research and Innovations 2013* [= ICERI 2013]. Madrid: IATED. p. 4654-4663.
- Stracke, Christian M. et al. (2013): "Open School Learning. A vision to improve European schools towards 2030 – using the results of the Open Discovery Space project"; in: *OPEN EDUCATION 2030. JRC-IPTS Call for Vision Papers. Part II: School Education*. Sevilla: JRC. p. 99-104.

All also online available at: <http://www.opening-up.education>

# Further References

- Stracke, Christian M. (2012): "Learning Innovations and Learning Quality: Relations, Interdependences, and Future"; in: Stracke, Christian M. (ed.) (2012): *The Future of Learning Innovations and Learning Quality. How do they fit together?* Brussels: Gito. p. 13-25.
- Stracke, Christian M. (2012): "Competences and skills for learning-outcome orientation: Competence development, modelling, and standards for human resources development, education and training"; in: 华东师范大学学报(自然科学版) *Journal of East China Normal University*. Vol. 2012 (2). Shanghai: ECNU. p. 115-130.
- Stracke, Christian M. (2011): "Competence and Skills Modelling for European HR and Policies"; in: Stracke, Chr. M. (ed.): *Competence Modelling for Human Resources Development and European Policies. Bridging Business, Education and Training*. Brussels: Gito. p. 12-37.

All also online available at: <http://www.opening-up.education>

# Further References

- Stracke, Christian M. (2011): "Competences and Skills in the Digital Age: Competence Development, Modelling, and Standards for Human Resources Development"; in: *Proceedings of the International Conference on Metadata and Semantics Research Conference (MTSR 2011)*, Berlin/ Heidelberg: Springer. p. 34-46.
- Stracke, Christian M. (2011): "Competence Modelling for Innovations and Quality Development in E-Learning: Towards learning outcome orientation by competence models"; in: *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunication 2011 [= ED-MEDIA 2011]*; Chesapeake, VA: AACE. p. 1885-1894.
- Stracke, Christian M. (2010): "Quality development and standards in learning, education, and training: adaptation model and guidelines for implementations"; in: *Информатизация образования и науки [= Информике (Informika), ISSN 2073-7572]*; Vol. 7 (3), 2010. Moscow (Russian Federation), S.136-146.
- All also online available at: <http://www.opening-up.education>



# Further References

Stracke, Christian M. (2010): "The Benefits and Future of Standards: Metadata and beyond"; in: *Proceedings of the International Conference on Metadata and Semantics Research Conference (MTSR 2010)*. Berlin/ Heidelberg: Springer. p. 354-361.

Stracke, Christian M. (2010): "Quality and Standards in Learning, Education, and Training: The Adaptation Model IDEA for the Introduction of Quality Development"; in: *Proceedings of the International Conference on the Past and Future of e-Learning Standards*. Tokyo (Japan). p. 26-36.

Stracke, Christian M. (2007): *Quality Standards for Quality Development in e-Learning: Adoption, Implementation and Adaptation of ISO/IEC 19796-1*. Essen: eLC / Q.E.D.

Stracke, Christian M. (2006): "Process-oriented Quality Management", in: Ehlers, U.-D./ Pawlowski, J. M. (Eds.): *Handbook on Quality and Standardisation in E-Learning*. Berlin: Springer. p. 79-96.

All also online available at: <http://www.opening-up.education>

# Let us cooperate!



**christian.stracke@ou.nl**



**@ChrMStracke**

**[www.opening-up.education](http://www.opening-up.education)**

# Thank you! Questions?

Christian M. Stracke  
Open University of the Netherlands



# Conclusions

# Open questions

**What does Openness mean for you?**

**What do you think about needs, challenges and strategies for/to change Open Education?**

**And finally: Which learning innovations do you need and want for/from Open Education?**

**[padlet.com/christian\\_stracke/WI\\_Conference\\_20160318](https://padlet.com/christian_stracke/WI_Conference_20160318)**



Source: <https://www.flickr.com/photos/opensourceway/>

# **Towards Open Learning**

**Let us Opening up Learning,  
Education and Training for ALL!**

